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Relevanc

1 [Extended-Range Arithmetic and Normalized Legendre Polynomials](#)

J. M. Smith, F. W. J. Olver, D. W. Lozier

March 1981 **ACM Transactions on Mathematical Software (TOMS)**, Volume 7 Issue 1

Full text available:  [pdf\(760.37 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

2 [Architectures: A perspective on the future of massively parallel computing: fine-grain vs. coa parallel models comparison & contrast](#)

Predrag T. Tomic

April 2004 **Proceedings of the first conference on computing frontiers on Computing fronti**

Full text available:  [pdf\(277.49 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Models, architectures and languages for *parallel computation* have been of utmost research interest in computer science and engineering for several decades. A great variety of parallel computation models have been proposed and studied, and different parallel and distributed architectures designed as some of the ways of harnessing parallelism and improving performance of the general purpose computers. *Massively parallel connectionist models* such as *artificial neural networks* (...

Keywords: cellular automata, distributed systems, massively parallel computing, multiprocessor systems, neural networks, parallel computation models

3 [IR-5 \(information retrieval\): information retrieval applications: The liberal media and right-wing conspiracies: using cocitation information to estimate political orientation in web documents](#)

Miles Efron

November 2004 **Proceedings of the Thirteenth ACM conference on Information and knowledge management**

Full text available:  [pdf\(321.47 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


This paper introduces a simple method for estimating *cultural orientation*, the affiliation of entities in a polarized field of discourse. In particular, cocitation information is used to estimate the orientation of hypertext documents. A type of cultural orientation, the political orientation of a document, the degree to which it participates in traditionally left- or right-wing beliefs. Estimating documents orientation is of interest for personalization ...

Keywords: PMI-IR, cocitation, cultural orientation, opinion mining, personalization, politics

4 [Types and persistence in database programming languages](#)

Malcolm P. Atkinson, O. Peter Buneman

June 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 2

Full text available:  [pdf\(7.91 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Traditionally, the interface between a programming language and a database has either been through relatively low-level subroutine calls, or it has required some form of embedding of one language in the other. Recently, the necessity of integrating database and programming language techniques has received long-overdue recognition. In response, a number of attempts have been made to construct programming languages with completely integrated database management systems. These languages ...

5 Incremental updates of inverted lists for text document retrieval

Anthony Tomasic, Héctor García-Molina, Kurt Shoens

May 1994 **ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data**, Volume 23 Issue 2

Full text available:  pdf(1.39 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

With the proliferation of the world's "information highways" a renewed interest in efficient document retrieval techniques has come about. In this paper, the problem of incremental updates of inverted lists is addressed using a new dual-structure index. The index dynamically separates long and short inverted lists for efficient retrieval, update, and storage of each type of list. To study the behavior of the index, a space of trade-offs which range from optimizing update to optimizing retrieval ...

6 Draft Proposed: American National Standard—Graphical Kernel System

Technical Committee X3H3 - Computer Graphics

February 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue SI

Full text available:  pdf(16.07 MB)

Additional Information: [full citation](#)

7 Translator writing systems

Jerome Feldman, David Gries

February 1968 **Communications of the ACM**, Volume 11 Issue 2

Full text available:  pdf(4.47 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

A critical review of recent efforts to automate the writing of translators of programming languages is presented. The formal study of syntax and its application to translator writing are discussed in Section II. Various approaches to automating the postsyntactic (semantic) aspects of translator writing are discussed in Section III, and several related topics in Section IV.

Keywords: compiler, compiler-compiler, generator, macroprocessor, meta-assembler, metacompiler, semantics, syntactic analysis, syntax, syntax-directed, translator, translator writing system

8 ARIES: a transaction recovery method supporting fine-granularity locking and partial rollback and write-ahead logging

C. Mohan, Don Haderle, Bruce Lindsay, Hamid Pirahesh, Peter Schwarz

March 1992 **ACM Transactions on Database Systems (TODS)**, Volume 17 Issue 1

Full text available:  pdf(5.23 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

DB2TM, IMS, and TandemTM systems. ARIES is applicable not only to database management systems but also to persistent object-oriented languages, recoverable file systems and transaction-based operating systems. ARIES has been implemented, to varying degrees, in IBM's OS/2TM Extended Edition Database Manager, DB2, Workstation Data Save Facility/VM, Starburst and QuickSilver, and in the University of Wisconsin's EXODUS and Gamma databases ...

Keywords: buffer management, latching, locking, space management, write-ahead logging

9 Status report of the graphic standards planning committee

Computer Graphics staff

August 1979 **ACM SIGGRAPH Computer Graphics**, Volume 13 Issue 3

Full text available:  pdf(15.01 MB)

Additional Information: [full citation](#), [references](#), [citations](#)

External memory algorithms and data structures: dealing with **massive** data

Jeffrey Scott Vitter

June 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 2

Full text available:  pdf(828.46 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Data sets in large applications are often too massive to fit completely inside the computers internal memory. The resulting input/output communication (or I/O) between fast internal memory and slower external memory (such as disks) can be a major performance bottleneck. In this article we survey the state of the art in the design and analysis of external memory (or EM) algorithms and data structures, where the algorithms exploit locality in order to reduce the I/O costs. We consider a variety of ...

Keywords: B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary storage, sorting

11 Revised5 report on the algorithmic language scheme

N. I. Adams, D. H. Bartley, G. Brooks, R. K. Dybvig, D. P. Friedman, R. Halstead, C. Hanson, C. T. Ho, Kohlbecker, D. Oxley, K. M. Pitman, G. J. Rozas, G. L. Steele, G. J. Sussman, M. Wand, H. Abelson
September 1998 **ACM SIGPLAN Notices**, Volume 33 Issue 9

Full text available:  pdf(4.44 MB)

Additional Information: [full citation](#), [citations](#), [index terms](#)

12 A reliable object-oriented data repository for a distributed computer system

Liba Svobodova

December 1981 **Proceedings of the eighth ACM symposium on Operating systems principles**

Full text available:  pdf(1.18 MB)



Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The repository described in this paper is a component of a distributed data storage system for a network of many autonomous machines that might run diverse applications. The repository is a server machine that provides very large, very reliable long-term storage for both private and shared data objects. The repository can handle both very small and very large data objects, and it supports atomic update of groups of objects that might be distributed over several repositories. Each object is ...

Keywords: Atomic update, Crash recovery, Distributed data storage system, Memory management, disk, Server, Stable storage

13 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available:  pdf(613.63 KB)  html
(2.78 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

14 A high-level abstraction of shared accesses

Peter J. Keleher

February 2000 **ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 1

Full text available:  pdf(183.57 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

We describe the design and use of the tape mechanism, a new high-level abstraction of accesses to shared data for software DSMs. Tapes consolidate and generalize a number of recent protocol optimizations including update-based locks and recorded-replay barriers. Tapes are usually created by "recording" accesses. The resulting recordings can be used to anticipate future accesses by tailoring data movement to application semantics. Tapes-based mechanisms are ...

Keywords: DSM, programming libraries, shared memory, update protocols

15 Multiversion-based view maintenance over distributed data sources

Songting Chen, Bin Liu, Elke A. Rundensteiner

December 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 4

Full text available:  pdf(480.72 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Materialized views can be maintained by submitting maintenance queries to the data sources. However, query results may be erroneous due to concurrent source updates. State-of-the-art maintenance systems typically apply compensations to resolve such conflicts and assume all source schemata remain static over time. In a loosely coupled dynamic environment, the sources may autonomously change not only their data but also their schema or semantics. Consequently, either the maintenance or the ...

Keywords: View maintenance, transaction processing

16 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  pdf(4.21 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process diagrams are often used to obtain a better understanding of the execution of the application. The tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial communication patterns ...

17 Linguistic support for atomic data types

William E. Weihl

April 1990 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 12

Full text available:  pdf(2.10 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The problems of concurrency and failures in distributed systems can be addressed by implementing applications in terms of atomic data types: data types whose objects provide serializability and recovery for transactions using them. The specifications of the types can be used to permit high levels of concurrency among transactions while still ensuring atomicity. However, highly concurrent implementations can be complicated. In this paper we analyze the expressive power of existing ...

18 Status report of the graphic standards planning committee of ACM/SIGGRAPH: State-of-the-graphic software packages

Computer Graphics staff

September 1977 **ACM SIGGRAPH Computer Graphics**, Volume 11 Issue 3

Full text available:  pdf(9.03 MB)

Additional Information: [full citation](#), [references](#)

19 The development of the SIMULA languages

Kristen Nygaard, Ole-Johan Dahl

January 1978 **ACM SIGPLAN Notices , The first ACM SIGPLAN conference on History of programming languages**, Volume 13 Issue 8

Full text available:  pdf(2.83 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The organizers of this conference have told us that we should write at least 25 pages of manuscript, but we may produce as many pages more as we wanted. Perhaps they did not envisage the possible consequences, but we have taken their words at face value. This paper has implied a vast amount of historical and archeological activities. We are grateful to SIGPLAN for defining a task to which resources had been allocated by our institutions and which forced us to write down an account ...

20 Comparison of access methods for time-evolving data

Betty Salzberg, Vassilis J. Tsotras

June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

This paper compares different indexing techniques proposed for supporting efficient access to temporal databases. The comparison is based on a collection of important performance criteria, including the space consumption, update processing, and query time for representative queries. The comparison is based on worst-case analysis, hence no assumptions on data distribution or query frequencies are made. When a number of methods have the same asymptotic worst-case behavior, features in the methods that distinguish them are considered.

Keywords: I/O performance, access methods, structures, temporal databases

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